

Biology
Quiz #2 Review Sheet

Name: _____

Date: _____ Hour: _____

1. What is the diffusion of water across a membrane is called? _____

2. Diffusion and osmosis are examples which type of transport? _____
3. The difference in concentration across a membrane is called the: _____

4. What is the movement of particles from an area of high concentration of solute to an area of low concentration called?

5. Which type of substance or molecule **cannot** pass through the plasma membrane without help?

6. The substance in which a solute is dissolved is called the: _____
7. What is the general name of substance dissolved in water or any other liquid substance?

8. What is the name of a mixture in which one or more substances are uniformly dissolved?

9. Does passive transport require energy? _____
10. Why do molecules continuously move back and forth through the plasma membrane?

11. What is the plasma membrane is made up of? _____

12. What does it mean to be selectively permeable? _____

13. Describe how the plasma membrane helps maintain homeostasis in the cell: _____

14. Draw a diagram of the plasma membrane. Include labels for hydrophilic head and hydrophobic tail:

15. What molecules in the plasma membrane provide structure, cell identity, and fluidity?

16. Describe how a plasma membrane controls what comes in and out of the cell: _____

17. How is facilitated diffusion different than diffusion of water? _____

18. Some organisms that usually live in pond water contain water pumps. These pumps continually pump water out of the cell. Describe a scenario that might reverse the action of the pump.
